

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare et al.  
Assignee: Stanford University  
Title: FUSED-SILICA CAPILLARIES WITH PHOTOPOLYMER COMPONENTS  
Serial No.: 10/008,482 Filed: November 13, 2001  
Examiner: Therkorn, Ernest G. Group Art Unit: 1723  
Docket No.: M-11147-1C US

Certificate of Mailing Under 37 CFR 1.8

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Commissioner for Patents, Washington, D.C. 20231, on 4/7/03

Gileen Bowe  
Signature

Commissioner for Patents  
Washington, D. C. 20231

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(c) WITH FEE**

Dear Sir:

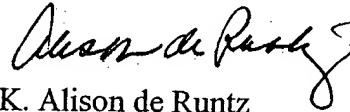
Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of the documents are enclosed.

Listing of the these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, or
3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

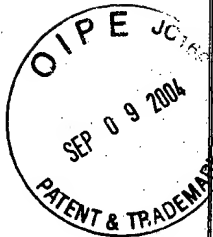
Enclosed is a check for \$180.00 for the Information Disclosure Statement fee under 37 C.F.R. § 1.17(p), as set forth in the accompanying transmittal letter.

Respectfully submitted,



K. Alison de Runtz

PARSONS HSUE & DE RUNTZ LLP  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Richard N. Zare et al.  
Title: Fused-Silica Capillaries with Photopolymer Components  
Application No.: Unknown Filing Date: Herewith  
Examiner: Unknown Group Art Unit: Unknown  
Docket No.: STNB.055US3 Conf. No.: Unknown

September 29, 2003

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Enclosed are copies of Disclosure Statements, PTO-1449 forms, and a PTO-892 form, which were made of record in grandparent and parent applications:

Serial No. 09/507,707, filed February 18, 2000; and

Serial No. 10/008,482, filed November 13, 2001.

The above-listed applications are relied upon by the instant application for earlier filing dates under 35 U.S.C. Section 120.

Each document listed on the various statements is incorporated herein for the Examiner's consideration. The making of each of them of record in the file of this application, is respectfully requested.

STNB.055US3

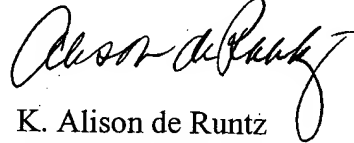
Express Mail No.: EV 321716443 US

Since these references were previously filed by Applicants, or cited by the Examiner, in the grandparent and parent patent applications 09/507,707 and 10/008,482, no copies are included. Should copies be desired, the undersigned attorney would be glad to furnish them.

**EXPRESS MAIL LABEL NO:**

**EV 321716443US**

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No. 37,119

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants

Confirmation No.

(Use several sheets if necessary)

Zare et al.

8199

Filing Date

Group

August 8, 2001

1723

## U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	1	4,323,439	4/6/82	O'Farrell			
	2	4,617,102	10/14/86	Tomblin et al.			
	3	5,085,756	2/4/92	Swedberg			
	4	5,116,471	5/26/92	Chien et al.			
	5	5,202,010	4/13/93	Guzman			
	6	5,340,452	8/23/94	Brenner et al.			
	7	5,423,966	6/13/95	Wiktorowicz			
	8	5,453,382	9/26/95	Novotny et al.			
	9	5,766,435	6/16/98	Liao et al.			
	10	5,800,692	9/1/98	Naylor et al.			
	11	6,136,187	10/24/00	Zare et al.			
	12	5,772,875	6/30/98	Pettersson et al.			
	13	3,568,840	12/24/68	Hashimoto, et al.			
	14	3,757,490	9/11/73	Ma			
	15	5,308,495	5/3/94	Avnir et al.			
	16	5,316,680	5/31/94	Frechet et al.			
	17	5,334,310	8/2/94	Frechet et al.			
	18	5,552,994	6/4/96	Frechet et al.			
	19	5,647,979	7/15/97	Liao et al.			
	20	5,667,674	9/16/97	Hanggi et al.			
	21	5,719,322	2/17/98	Lansbarkis et al.			
	22	5,728,296	3/17/98	Hjerten te al.			
	23	5,728,457	3/17/98	Frechet et al.			
	24	5,759,405	6/2/98	Anderson, Jr. et al.			
	25	5,858,241	1/12/99	Dittmann et al.			
	26	4,675,300	6/23/87	Zare et al.			
	27	5,599,445	2/4/97	Betz et al.			
	28	5,637,135	6/10/97	Ottenstein et al.			
	29	3,808,125	8/25/72	Good			
	30	5,135,627	8/4/92	Soane			
	31	5,453,185	9/26/95	Frechet et al.			

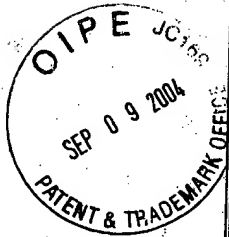
	32	3,503,711	5/18/66	Sussman				
	33	5,116,495	5/26/92	Prohaska				
	34	3,878,092	4/15/75	Fuller				
Foreign Patent Documents								
	35	Document	Date	Country	Class	Subclass	Translation	
	36	WO 00/49396	8/24/00	WIPO			Yes	No
	37	EP 0 779 512	06/18/97	EP				
	38	EP 0 439 318	7/31/91	EP				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	39	C. Yu et al., "Towards Stationary Phases for Chromatography on a Microchip: Molded Porous Polymer Monoliths Prepared in Capillaries by Photoinitiated In Situ Polymerization as Separation Media for Electrochromatography," <i>Electrophoresis</i> , Vol. 21, 2000, pp. 120-127.						
	40	J. Quirino et al., "Sweeping of Analyte Zones in Electrokinetic Chromatography," <i>Analytical Chemistry</i> , Vol. 71, No. 8, April 15, 1999, pp. 1638-1644.						
	41	M. Taylor et al., "Analysis of Corticosteroids in Biofluids by Capillary Electrochromatography with Gradient Elution," <i>Analytical Chemistry</i> , Vol. 69, No. 13, July 1, 1997, pp. 2554-2558.						
	42	D.A. Stead et al., "Capillary Electrochromatography of Steroids Increased Sensitivity by On-Line Concentration and Comparison with High-Performance Liquid Chromatography," <i>Journal of Chromatography A</i> , Vol. 798, 1998, pp. 259-267.						
	43	Y. Zhang et al., "High-Efficiency On-Line Concentration Technique of Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 22, November 15, 2000, pp. 5744-5747.						
	44	T. Tegeler et al., "On-Column Trace Enrichment by Sequential Frontal and Elution Electrochromatography. 1. Application to Carbamate Insecticides," <i>Analytical Chemistry</i> , Vol. 73, No. 14, July 15, 2001, pp. 3365-3372.						
	45	F. E. P. Mikkers et al., "Concentration Distributions in Free Zone Electrophoresis," <i>Journal of Chromatography</i> , Vol. 169, February 1, 1979, pp. 1-10.						
	46	R.-L. Chien et al., "On-Column Sample Concentration Using Field Amplification In CZE," <i>Analytical Chemistry</i> , Vol. 64, No. 8, April 15, 1992, pp. 489A-496A.						
	47	J. Quirino et al., "Exceeding 5000-Fold Concentration of Dilute Analytes in Micellar Electrokinetic Chromatography," <i>Science</i> , Vol. 282, October 16, 1998, pp. 465-468.						
	48	C. Yang et al., "Electrically Driven Microseparation Methods for Pesticides and Metabolites. II: On-line and Off-line Preconcentration of Urea Herbicides in Capillary Electrochromatography," <i>Electrophoresis</i> , Vol. 20, 1999, pp. 2337-2342.						
	49	M. Dulay et al., "Preparation and Characterization of Monolithic Porous Capillary Columns Loaded with Chromatographic Particles," <i>Analytical Chemistry</i> , Vol. 70, No. 23, December 1, 1998, pp. 5103-5107.						
	50	M. Dulay et al., "Photopolymerized Sol-Gel Monoliths for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 73, No. 16, August 15, 2001, pp. 3921-3926.						
	51	J. Quirino et al., "New Strategy for On-Line Preconcentration in Chromatographic Separations," manuscript.						
	52	J. Quirino et al., "On-Line Preconcentration in Capillary Electrochromatography Using a Porous Monolith, Solvent Gradient and Sample Stacking," manuscript.						
	53	M. Kato et al., "Photopolymerized Sol-Gel Frits for Packed Columns in Capillary Electrochromatography," <i>Journal of Chromatography A</i> , Vol. 924, 2001, pp. 187-195.						

54	J.-R. Chen et al., "Macroporous Photopolymer Frits for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 6, March 15, 2000, pp. 1224-1227.
55	C. Viklund et al., "Molded Macroporous Poly(Glycidyl Methacrylate-Co-Trimethylolpropane Trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization," <i>Chem. Mater.</i> , Vol. 9, No. 2, 1997, pp. 463-471.
56	M. Dulay et al., "Bonded-Phase Photopolymerized Sol-Gel Monoliths for Reversed Phase Capillary Electrochromatography," <i>J. Sep. Sci.</i> , Vol. 25, 2002, pp. 3-9.
57	M. Kato et al., "Effect of Preparatory Conditions on the Performance of Photopolymerized Sol-Gel Monoliths for Capillary Electrochromatography," <i>Journal of Chromatography A</i> , Vol. 961, 2002, pp. 45-51.
58	M. Kato et al., "Enantiomeric Separation of Amino Acids and Nonprotein Amino Acids Using a Particle-Loaded Monolithic Column," <i>Electrophoresis</i> , Vol. 21, 2000, pp. 3145-3151.
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60	J. Quirino et al., "Strategy for On-Line Preconcentration in Chromatographic Separations," <i>Anal. Chem.</i> , Vol. 73, 2001, pp. 5539-5543.
61	K. Morishima et al., "Toward Sol-Gel Electrochromatographic Separations on a Chip," <i>J. Sep. Sci.</i> , Vol. 25, 2002, pp. 1226-1230.
62	M.J. Hilhorst, et al., "Sensitivity Enhancement in Capillary Electrochromatography by On-Column Preconcentration," <i>Chromatographia</i> 2001, 53, February (No. 3/4), pp. 190-196.
63	Woo, et al., "Photopolymerization of Methyl Methacrylate with Primary Aryl- and Alkylsilanes," <i>Bulletin of the Korean Chemical Society</i> , Vol. 16, No. 11, ISSN 0253-2964, Nov. 20, 1995.
64	Cikalo, et al., "Capillary Electrochromatography," <i>Analyst</i> , July 1998, Vol. 123 pp. 87R-102R.
65	Quirino, et al., "Sample Stacking of Cationic and Anionic Analytes in Capillary Electrophoresis," <i>Journal of Chromatography, A</i> , 902 2000, pp. 119-135.
66	Quirino, et al. "Sweeping of Neutral Analytes in Electrokinetic Chromatography with High-Salt-Containing Matrixes," <i>Analytical Chemistry</i> , vol. 72, No. 8, April 15, 2000.
67	Chen, et al., "Semipreparative Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 73, No. 9, May 1, 2001.
68	Colon, et al., "Packing Columns for Capillary Electrochromatography," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 43-53.
69	Svec, et al., "Design of the Monolithic Polymers used in Capillary Electrochromatography Columns," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 3-29.
70	Constantin, et al., "Preparation of Stationary Phases for Open-Tubular Capillary Electrochromatography Using the Sol-Gel Method," <i>Journal of Chromatography, A</i> , 887 (2000) pp. 253-263.
71	Tan, et al., "Preparation and Evaluation of Bonded Linear Polymethacrylate Stationary Phases for Open Tubular Capillary Electrokinetic Chromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 4, Feb. 15, 1997.
72	Chirica, et al., "Fritless Capillary Columns for HPLC and CEC Prepared by Immobilizing the Stationary Phase in an Organic Polymer Matrix," <i>Analytical Chemistry</i> , Vol. 72, No. 15, August 1, 2000, pp. 3605-3610.
73	Palm, et al., "Macroporous Polyacrylamide/Poly(ethylene glycol) Matrixes as Stationary Phases in Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 22, Nov. 15, 1997, pp. 4499-4507.

74	Hayes, et al., "Sol-Gel Monolithic Columns with Reversed Electroosmotic Flow for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 72, No. 17, September 1, 2000, pp. 4090-4099.
75	Mol, et al., "Trace Level Analysis of Micropollutants in Aqueous Samples using Gas Chromatography with On-Line Sample Enrichment and Large Volume Injection," <i>Journal of Chromatography A</i> , 703 (1995) pp. 277-307.
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77	Rudge, et al., "Solute Retention in Electrochromatography by Electrically Induced Sorption," <i>AIChE Journal</i> , May 1993, Vol. 39, No. 5, pp. 797-808.
78	Kitagawa, et al., "Voltage-Induced Sample Release from Anion Exchange Supports in Capillary Electrochromatography," <i>Analytical Sciences</i> , June 1998, Vol. 14, pp. 571-575.
79	Josic, et al., "Monoliths as Stationary Phases for Separation of Proteins and Polynucleotides and Enzymatic Conversion," <i>Journal of Chromatography B</i> , 752 (2001) pp. 191-205.
80	Peters, et al., "Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography," <i>Analytical Chemistry</i> , Vol. 69, No. 17, September 1, 1997
81	Dulay, et al., "Automated Capillary Electrochromatography: Reliability and Reproducibility Studies," <i>Journal of Chromatography A</i> , 725 (1996) pp. 361-366.
82	Brinker, et al., "Sol-Gel Science: The physics and Chemistry of Sol-Gel Processing," <i>Academic Press</i> , San Diego, pp. 372-385, 408-411, 458-459 1990.
83	Badini, et al., "Impregnation of a pH-Sensitive Dye into Sol-Gels for Fibre Optic Chemical Sensors," <i>Analyst</i> , 120, pp. 1025-1028, April 1995.
84	Snyder, Introduction to Modern Liquid Chromatography, <i>John Wiley &amp; Sons, Inc.</i> , New York, 1979, pp. 145-147.
Examiner	Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>	

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PATENT & TRADEMARK OFFICE





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare  
Assignee: Stanford University  
Title: Fused-Silica Capillaries with Photopolymer Components  
Serial No.: 10/008,482 Filed: November 13, 2001  
Examiner: Therkorn, Ernest G. Group Art Unit: 1723  
Docket No.: STNB.055US1 Conf. No.: 5979

Certificate of Mailing Under 37 CFR 1.8

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Commissioner for Patents, Washington, D.C. 20231, on 10/24/03

Signature

*Eileen Bower*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(c) WITH FEE**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. Copies of the documents are enclosed.

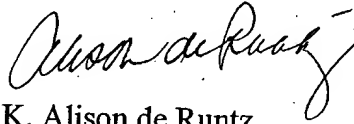
Listing of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or

3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Enclosed is a check for \$180.00 for the Information Disclosure Statement fee under 37 C.F.R. § 1.17(p), as set forth in the accompanying transmittal letter.

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No.: 37,119

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U.S. Department of Commerce, Patent and Trademark

Atty. Docket No.

Application No.

INFORMATION DISCLOSURE STATEMENT BY  
APPLICANT

STNB.055US1

10/008,482

Applicant(s)

Richard N. Zare

Filing Date

Group

November 13, 2001

1723

(Use several sheets if necessary)

## U.S. Patent Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,790,919	12/13/88	Baylor, Jr.			
	5,200,150	4/6/93	Rose, Jr.			
	5,916,427	6/29/99	Kirkpatrick			

## U.S. Published Patent Application Documents

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

## Foreign Patent Documents

Document	Date	Country	Class	Subclass	Translation	
WO 99/30147	6/17/99	PCT			Yes	No

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	International Search Report mailed October 25, 2002.
	Boughtflower et al., "Capillary Electrochromatography - Some Important Considerations in the Preparation of Packed Capillaries and the Choice of Mobile Phase Buffers," <i>Chromatographia</i> , Vol. 40, No. 5/6, March 1995, pp. 329-335.

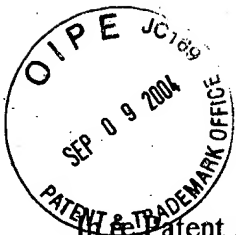
Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.



FORM PTO-892 (REV. 2-92)						U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE						SERIAL NO. <b>10/008,482</b>				GROUP ART UNIT <b>1723</b>				ATTACHMENT TO PAPER NUMBER <b>6</b>			
NOTICE OF REFERENCES CITED												APPLICANT(S) <b>ZARE</b>											
U.S. PATENT DOCUMENTS																							
* A	DOCUMENT NO.								DATE		NAME				CLASS		SUB-CLASS		FILING DATE IF APPROPRIATE				
A	4	2	9	3	4	1	5	10/81		Bente				210		1982							
B	5	9	3	8	9	1	9	8/99		Nasafabadi				210		1982							
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of )

Richard N. Zare et al. )

Serial No.: 09/507,707 )

Filed: February 18, 2000 )

For: FUSED-SILICA CAPILLARIES WITH )  
PHOTOPOLYMER COMPONENTS )

Group Art Unit: 1732

San Francisco, California

Assistant Commissioner for Patents  
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on July 14, 2000.

Sarah Lyn Torres

*Sarah Lyn Torres*  
Signature

*7/14/00*  
Date

DISCLOSURE STATEMENT

Sir:

The following Form 1449 and copies of documents listed thereon are being filed herewith as a Disclosure Statement. Consideration of each of these documents by the Patent Examiner, and the making of each of them of record in the file of this application, are respectfully requested.

Respectfully submitted,

Dated: July 14, 2000.

*J. Suzanne Siebert*

J. Suzanne Siebert, Reg. No. 28,758  
MAJESTIC, PARSONS, SIEBERT & HSUE P.C.  
Four Embarcadero Center, Suite 1100  
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Atty. Docket: STAN.055US0

FORM PT01449

(REV. 8-83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

STAN.055US0

SERIAL NO.

09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Richard N. Zare et al.

FILED

February 18, 2000

GROUP

1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A1		3	5	0	3	7	1	2	3/31/70	Sussman			
	A2		3	5	6	8	8	4	0	3/9/71	Hashimoto			
	A3		3	7	5	7	4	9	0	9/11/73	Ma			
	A4		3	8	0	8	1	2	5	4/30/74	Good			
	A5		3	8	7	8	0	9	2	4/15/75	Fuller			
	A6		4	6	7	5	3	0	0	6/23/87	Zare et al.			
	A7		5	1	1	6	4	9	5	5/26/92	Prohaska			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)
	B1		0	4	3	9	3	1	8	31.07.91	EPO			Yes

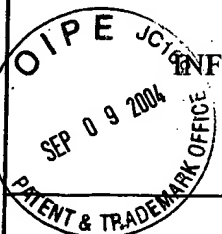
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	C1	Badini et al., "Impregnation of a pH-Sensitive Dye into Sol-Gels for Fibre Optic Chemical Sensors," <i>Analyst</i> , 120, pp. 1025-1028, April 1995.
	C2	Brinker and Scherer, <i>Sol-Gel Science: The Physics and Chemistry of Sol-Gel Processing</i> , Academic Press, San Diego, pp. 372-385, 408-411, 458-459, 746-748, and 760, 1990.
	C3	Burgi and Chien, "Optimization in Samples Stacking for High-Performance Capillary Electrophoresis," <i>Anal. Chem.</i> , 63, pp. 2042-2047, 1991.
	C4	Chen et al., "Macroporous Photopolymer Frits for Capillary Electrochromatography," <i>Anal. Chem.</i> , 72, pp. 1224-1227, 2000.
	C5	Chong et al., "Sol-Gel Coating Technology for the Preparation of Solid-Phase Microextraction Fibers of Enhanced Thermal Stability," <i>Anal. Chem.</i> , 69, pp. 3889-3898, 1997.
	C6	Dulay et al., "Automated Capillary Electrochromatography: Reliability and Reproducibility Studies," <i>Journal of Chromatography</i> , 725, pp. 361-366, 1996.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT  
Richard N. Zare et al.FILED  
February 18, 2000GROUP  
1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
A8	5 1 3 5 6 2 7	8/4/92	Soane			
A9	5 3 0 8 4 9 5	5/3/94	Avnir et al.			
A10	5 3 1 6 6 8 0	5/31/94	Frechet et al.			
A11	5 3 3 4 3 1 0	8/2/94	Frechet et al.			
A12	5 4 5 3 1 8 5	9/26/95	Frechet et al.			
A13	5 5 2 2 9 9 4	6/4/96	Frechet et al.			
A14	5 5 9 9 4 4 5	2/4/97	Betz et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)
B2 0 7 7 9 5 1 2	18.06.97	EPO			Yes

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C7	Dulay et al., "Preparation and Characterization of monolithic Porous Capillary Columns Loaded with Chromatographic Particles," <i>Anal. Chem.</i> , 70, pp. 5103-5107, 1998.
C8	Etienne et al., "Photocurable Sol-Gel Coatings: Channel Waveguides for Use at 1.55 $\mu\text{m}$ ," <i>Journal of Sol-Gel Science and Technology</i> , 13, pp. 523-527, 1998.
C9	Guo et al., "Hydrolytically Stable Amino-Silica Glass Coating Material for Manipulation of the Electroosmotic Flow in Capillary Electrophoresis," <i>Journal of Chromatography</i> , 744, pp. 17-29, 1996.
C10	Guo and Colón, "Modification of the Inner Capillary Surface by the Sol-Gel Method: Application to Open Tubular Electrochromatography," <i>J. Microcolumn Separations</i> , 7(5), pp. 485-491, 1995.
C11	Kenny et al, "Micropreparative Capillary Electrophoresis (MPCE) and Micropreparative HPLC of Protein Digests," <i>Techniques in Protein Chemistry IV</i> , Academic Press, San Diego, pp. 363-370, 1993.
C12	Mikkers et al., "Concentration Distributions in Free Zone Electrophoresis," <i>Journal of Chromatography</i> , 169, pp. 1-10, 1979.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PT01449  
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
STAN.055US0SERIAL NO.  
09/507,707

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANT

Richard N. Zare et al.

## FILED

February 18, 2000

## GROUP

1732

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A15	5 6 4 7 9 7 9	7/15/97	Liao et al.		
	A16	5 6 6 7 6 7 4	9/16/97	Hanggi et al.		
	A17	5 7 1 9 3 2 2	2/17/98	Lansbarkis et al.		
	A18	5 7 2 8 2 9 6	3/17/98	Hjertén et al.		
	A19	5 7 2 8 4 5 7	3/17/98	Frechet et al.		
	A20	5 7 5 9 4 0 5	6/2/98	Anderson, Jr. et al.		
	A21	5 7 7 2 8 7 5	6/30/98	Pettersson et al.		

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C13	Palm and Novotny, "Macroporous Polyacrylamide/Poly(ethylene glycol) Matrixes as Stationary Phases in Capillary Electrochromatography," <i>Anal. Chem.</i> , 69, pp. 4499-4507, 1997.
C14	Peters et al., "Molded Rigid Polymer Monoliths as Separation Media for Capillary Electrochromatography," <i>Anal. Chem.</i> , 69, pp. 3646-3649, 1997.
C15	Righetti et al., "'Laterally Aggregated' Polyacrylamide Gels for Electrophoresis," <i>Electrophoresis</i> , 13, pp. 587-595, 1992.
C16	Righetti et al., "On the Limiting Pore Size of Hydrophilic Gels for Electrophoresis and Isoelectric Focusing," <i>Journal of Biochemical and Biophysical Methods</i> , 4, pp. 347-363, 1981.
C17	Smith and Ohms, "Micropreparative Separation of Tryptic Digests by Capillary Electrophoresis and Characterization by Protein Sequencing," <i>Techniques in Protein Chemistry III</i> , Academic Press, San Diego, pp. 113-120, 1992.
C18	Snyder, <i>Introduction to Modern Liquid Chromatography</i> , John Wiley & Sons, Inc., New York, pp. 145-147, 1979.

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## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
A22	5 8 5 8 2 4 1	1/12/99	Dittmann et al.			
A23	5 6 3 7 1 3 5	6/10/97	Ottenstein et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

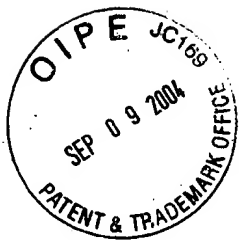
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

C19	Swartz and Merion, "On-Line Sample Preconcentration on a Packed-Inlet Capillary for Improving the Sensitivity of Capillary Electrophoretic Analysis of Pharmaceuticals," <i>Journal of Chromatography</i> , 632, pp. 209-213, 1993.
C20	Tsuda et al., "Rectangular Capillaries for Capillary Zone Electrophoresis," <i>Anal. Chem.</i> , 62, pp. 2149-2152, 1990.
C21	Viklund et al., "'Molded" Macroporous Poly(glycidyl methacrylate-co-trimethylolpropane trimethacrylate) Materials with Fine Controlled Porous Properties: Preparation of Monoliths Using Photoinitiated Polymerization," <i>Chem. Mater.</i> , 9, pp. 463-471, 1997.

EXAMINER

DATE CONSIDERED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Richard N. Zare et al.  
Title: FUSED-SILICA CAPILLARIES WITH PHOTOPOLYMER COMPONENTS  
Serial No.: Unknown Filed: Herewith  
Examiner: Unknown Group Art Unit: Unknown  
Docket No.: STNB.055US3

September 29, 2003

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the document listed on the accompanying form PTO-1449 is called to the attention of the Examiner for the above patent application. A copy of the document is enclosed.

Listing of this document shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;

2. a representation that a search has been made; or

STNB.055US3

-1-

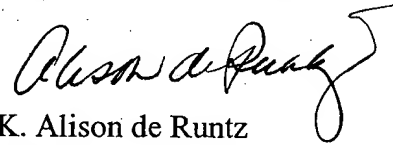
Express Mail No.: EV 321716443 US

3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

**EXPRESS MAIL LABEL NO:**

**EV 321716443US**

Respectfully submitted,



K. Alison de Runtz  
Attorney of Record  
Reg. No. 37,119

Parsons Hsue & de Runtz LLP  
655 Montgomery Street, Suite 1800  
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(415) 318-1160  
(415) 693-0194 (Fax)

3.

U.S. Department of Commerce, Patent and Trademark				Att'y. Docket No.		Application No.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				STNB.055US3		Unknown	
(Use several sheets if necessary)				Applicant(s)		Conf. No.	
				Zare et al.		Unknown	
				Filing Date		Group	
				Herewith		Unknown	

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

U.S. Published Patent Application Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

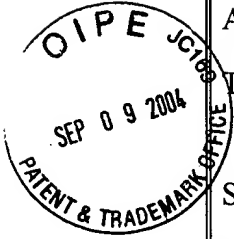
  

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
1	Copy of International Search Report mailed January 3, 2003.	

Examiner	Date Considered
<p><b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant(s): Richard N. Zare et al.  
Title: FUSED-SILICA CAPILLARIES WITH PHOTOPOLYMER COMPONENTS  
Serial No.: 09/978,515 Filed: September 29, 2003  
Examiner: Therkorn, Ernest G. Group Art Unit: 1723  
Docket No.: STNB.055US3 Conf. No.: 5049

September 9, 2004

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97(b)**

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the documents listed on the accompanying form PTO-1449 are called to the attention of the Examiner for the above patent application. A copy of the documents are enclosed.

Listing of these documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or

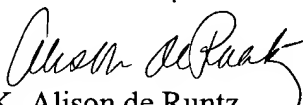
3. an admission that the information listed herein is, or is considered to be, material to patentability as defined in § 1.56(b).

This information disclosure statement is submitted under 37 C.F.R. § 1.97(b) and consequently no fee should be required. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664.

**EXPRESS MAIL LABEL NO:**

**EV 437668200US**

Respectfully submitted,

  
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U.S. Department of Commerce, Patent and Trademark				Atty. Docket No.		Application No.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				STNB.055US3		10/674,652	
				Applicant(s)		Conf. No.	
(Use several sheets if necessary)				Zare et al.		4785	
				Filing Date		Group	
				September 29, 2003		1723	

U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

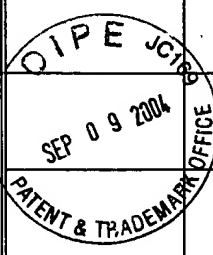
U.S. Published Patent Application Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
	1	Burgi et al., "Optimization in Sample Stacking for High-Performance Capillary Electrophoresis," <i>Anal. Chem.</i> 1991, 63, pp. 2042-2047.
	2	Chen et al., "Macroporous Photopolymer Frits for Capillary Electrochromatography," <i>Anal. Chem.</i> , 72, pp. 1224-1227, 2000.
	3	Chong et al., "Sol-Gel Coating Technology for the Preparation of Solid-Phase Microextraction Fibers of Enhanced Thermal Stability," <i>Anal. Chem.</i> 69, pp. 3889-3898, 1997.
	4	Etienne et al., "Photocurable Sol-Gel Coatings: Channel Waveguides for Use at 1.55 $\mu\text{m}$ ," <i>Journal of Sol Gel Science and Technology</i> , 13, 1998, pp. 523-527.
	5	Guo et al., "Hydrolytically Stable Amino-Silica Glass Coating Material for Manipulation of the Electroosmotic Flow in Capillary Electrophoresis," <i>Journal of Chromatography</i> , 744, pp. 17-29, 1996.
	6	Guo et al., "Modification of the Inner Capillary Surface by the Sol-Gel Method: Application to Open Tubular Electrochromatography," <i>J. Microcolumn Separations</i> , Vol. 7, No. 5, 1995, pp. 485-491.
	7	Kenny et al., "Micropreparative Capillary Electrophoresis (MPCE) and Micropreparative HPLC of Protein Digests," <i>Techniques in Protein Chemistry IV</i> , pp. 363-370.
	8	Righetti et al., "'Laterally Aggregated' Polyacrylamide Gels for Electrophoresis," <i>Electrophoresis</i> , 13, 1992, pp. 587-595.
	9	Righetti et al., "On the Limiting Pore Size of Hydrophilic gels for Electrophoresis and Isoelectric Focusing," <i>Journal of Biochemical and Biophysical Methods</i> , 4, 1981, pp. 347-363.
	10	Smith et al., "Micropreparative Separation of Tryptic Digests by Capillary Electrophoresis and Characterization by Protein Sequencing," <i>Techniques in Protein Chemistry III</i> , Academic Press, San Diego, pp. 113-120, 1992.

	11	Swartz et al., "On-Line Sample Preconcentration on a Packed-Inlet Capillary for Improving the Sensitivity of Capillary Electrophoretic Analysis of Pharmaceuticals," <i>Journal of Chromatography</i> , 632, 1993. pp. 209-213.
	12	Tsuda et al., "Rectangular Capillaries for Capillary Zone Electrophoresis," <i>Anal. Chem.</i> , 62, 1990, pp. 2149-2152.
	13	Notification of Transmittal of the International Search Report or the Declaration mailed January 1, 2004 for International Application No. PCT/US02/25752 for The Board of Trustees of the Leland Stanford Junior College
Examiner		Date Considered
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>		